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Lauren B. Doyle

October 1961 **Journal of the ACM (JACM)**, Volume 8 Issue 4

Full text available: pdf(1.46 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**2** [A region coloring technique for scene analysis](#)

James P. Strong, Azriel Rosenfeld

April 1973 **Communications of the ACM**, Volume 16 Issue 4

Full text available: pdf(1.01 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

A method of converting a picture into a "cartoon" or "map" whose regions correspond to differently textured regions is described. Texture edges in the picture are detected, and solid regions surrounded by these (usually broken) edges are "colored in" using a propagation process. The resulting map is cleaned by comparing the region colors with the textures of the corresponding regions in the picture, and also by merging some regions with others according to ...

Keywords: edge detection, picture processing, scene analysis**3** [Applications of computer graphics to the visualization of meteorological data](#)

T. V. Papathomas, J. A. Schiavone, B. Julesz

June 1988 **ACM SIGGRAPH Computer Graphics, Proceedings of the 15th annual conference on Computer graphics and interactive techniques**, Volume 22 Issue 4

Full text available: pdf(3.39 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The need to visualize huge amounts of numerical data is exemplified in the field of meteorology, where measurements of many atmospheric parameters are routinely taken over large geographical areas for the purpose of monitoring and predicting weather. Computer graphics has provided and will continue to offer powerful tools to meet this visualization challenge, principally in three areas: first, efficient graphics algorithms for displaying the data; second, novel special-purpose graphics hardware; ...


Keywords: animation, atmospheric phenomena, clouds, display techniques, fog, image processing, interactive workstations, modelling, motion, perception, stereo, weather

forecasting

4 Is paper safer? The role of paper flight strips in air traffic control

Wendy E. MacKay

December 1999 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 6 Issue 4

Full text available:  pdf(1.13 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Air traffic control is a complex, safety-critical activity, with well-established and successful work practices. Yet many attempts to automate the existing system have failed because controllers remain attached to a key work artifact: the paper flight strip. This article describes a four-month intensive study of a team of Paris en-route controllers in order to understand their use of paper flight strips. The article also describes a comparison study of eight different control rooms in Franc ...

Keywords: activity theory, affordances, air traffic control, annotation, ethnographic study, paper flight strips, peripheral awareness, safety factors

5 Fault-tolerance in air traffic control systems

Flaviu Cristian, Bob Dancey, Jon Dehn

August 1996 **ACM Transactions on Computer Systems (TOCS)**, Volume 14 Issue 3

Full text available:  pdf(264.57 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The distributed real-time system services developed by Lockheed Martin's Air Traffic Management group serve the infrastructure for a number of air traffic control systems. Either completed development or under development are the US Federal Aviation Administration's Display System Replacement (DSR) system, the UK Civil Aviation Authority's New Enroute Center (NERC) system, and the Republic of China's Air Traffic Control Automated System (ATCAS). These systems are intended to replace present ...

Keywords: exception handling, failure, failure classification, failure masking, failure semantics, fault-tolerant systems, group communications, redundancy, server group, software robustness, system architecture

6 The NASA Digital Earth Testbed

Jeff de La Beaujardière, Horace Mitchell, Robert Raskin, Ananth Rao

November 2000 **Proceedings of the eighth ACM international symposium on Advances in geographic information systems**

Full text available:  pdf(767.19 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)


The goal of Digital Earth (www.digitalearth.gov) is to create a virtual representation of our planet that enables a person to explore and interact with the vast amounts of natural and cultural information gathered about the Earth. The challenge is enormous, and a critical first step is interoperability among the servers, viewers, catalogs and middleware services in such a distributed computing network.

As part of its contribution to the public/private/academic Digital Earth (DE) partn ...

7 A survey of image registration techniques

Lisa Gottesfeld Brown

December 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 4

Full text available:  pdf(5.20 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Registration is a fundamental task in image processing used to match two or more pictures taken, for example, at different times, from different sensors, or from different viewpoints. Virtually all large systems which evaluate images require the registration of images, or a closely related operation, as an intermediate step. Specific examples of systems where image registration is a significant component include matching a target with a real-time image of a scene for target recognition, mon ...

Keywords: image registration, image warping, rectification, template matching

8 Turmoil at NASA, and numerous funding announcements

Xiaolei Qian

September 1995 **ACM SIGMOD Record**, Volume 24 Issue 3

Full text available:  pdf(115.95 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Since the last issue of this column six months ago, there have been many interesting program announcements, some of which have already passed deadline. We'll go over these announcements anyway, with the hope that they can get the readers better prepared for future funding opportunities. But first, we'll talk about the continuing budget battle at Congress, and the recent turmoil at NASA.

9 Flight mission scenario generation with knowledge-based system

Sowmyan Raman

June 1988 **Proceedings of the first international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1**

Full text available:  pdf(377.40 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

ScenGen (FLIGHT MISSION ScenARIO GenERATOR) is a prototype knowledge based system being developed at Boeing for the Flight Crew Operations Requirements Group. The main objective of ScenGen is to provide a system which utilizes the tools and problem solving heuristics employed by the Flight Deck Engineers in developing Flight Mission Scenarios. A Flight Mission Scenario describes the flight crew activity associated with flying a route. The set of flight procedures to be accomplish ...

10 Terrain database interoperability issues in training with distributed interactive simulation

Guy A. Schiavone, S. Sureshchandran, Kenneth C. Hardis

July 1997 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 7 Issue 3

Full text available:  pdf(443.34 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

In Distributed Interactive Simulation (DIS), each participating node is responsible for maintaining its own model of the synthetic environment. Problems may arise if significant inconsistencies are allowed to exist between these separate world views, resulting in unrealistic simulation results or negative training, and a corresponding degradation of interoperability in a DIS simulation exercise. In the DIS community, this is known as the simulator terrain database (TDB) correlation problem. ...

Keywords: distributed interactive simulation, terrain databases

11

An example of simulation use in Army weapon system development

Ann H. Kissell

December 1999 **Proceedings of the 31st conference on Winter simulation: Simulation---
a bridge to the future - Volume 2**

Full text available:  [pdf\(147.52 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

12 DBIS-toolkit: adaptable middleware for large scale data delivery

Mehmet Altinel, Demet Aksoy, Thomas Baby, Michael Franklin, William Shapiro, Stan Zdonik
June 1999 **ACM SIGMOD Record , Proceedings of the 1999 ACM SIGMOD international
conference on Management of data**, Volume 28 Issue 2

Full text available:  [pdf\(387.52 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

13 Simulation Techniques for the Test and Evaluation of Real-Time Computer Programs

David R. Israel
July 1957 **Journal of the ACM (JACM)**, Volume 4 Issue 3

Full text available:  [pdf\(460.65 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

14 Computational science and engineering

A. Sameh, G. Cybenko, M. Kalos, K. Neves, J. Rice, D. Sorensen, F. Sullivan
December 1996 **ACM Computing Surveys (CSUR)**, Volume 28 Issue 4

Full text available:  [pdf\(188.49 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

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1 FoG: Synthesizing forecast text directly from weather maps
Goldberg, E.;

 Artificial Intelligence for Applications, 1993. Proceedings., Ninth Conference on
 5 March 1993

Pages:156 - 162

[\[Abstract\]](#)
[\[PDF Full-Text \(596 KB\)\]](#)
IEEE CNF
2 Coding of Two-Tone Images
Huang, T.;

 Communications, IEEE Transactions on [legacy, pre - 1988] , Volume: 25 , Is
 11 , Nov 1977

Pages:1406 - 1424

[\[Abstract\]](#)
[\[PDF Full-Text \(1704 KB\)\]](#)
IEEE JNL
3 Using natural-language processing to produce weather forecasts
Goldberg, E.; Driedger, N.; Kittredge, R.I.;

Expert, IEEE [see also IEEE Intelligent Systems] , Volume: 9 , Issue: 2 , Apr

Pages:45 - 53

[\[Abstract\]](#)
[\[PDF Full-Text \(976 KB\)\]](#)
IEEE JNL
4 Block context modeling approach for binary image coding
Hwayong Joung; Wong, E.K.; Kim, S. P.;

 Data Compression Conference, 1998. DCC '98. Proceedings , 30 March-1 April
 1998

Pages:552

[\[Abstract\]](#) [\[PDF Full-Text \(52 KB\)\]](#) [IEEE CNF](#)

5 Methods of obtaining weather data in real time

Gilhousen, D.B.;

OCEANS '88. 'A Partnership of Marine Interests'. Proceedings , 31 Oct.-2 Nov

Pages:1341 - 1343 vol.4

[\[Abstract\]](#) [\[PDF Full-Text \(276 KB\)\]](#) [IEEE CNF](#)

6 Particle flurries

Sobel, J.S.; Forsberg, A.S.; Laidlaw, D.H.; Zeleznik, R.C.; Keefe, D.F.; Pivkin, Karniadakis, G.E.; Richardson, P.; Swartz, S.;

Computer Graphics and Applications, IEEE , Volume: 24 , Issue: 2 , March-Apr 2004

Pages:76 - 85

[\[Abstract\]](#) [\[PDF Full-Text \(1890 KB\)\]](#) [IEEE JNL](#)

7 Reduced-Time Facsimile Transmission by Digital Coding

Wyle, H.; Erb, T.; Banow, R.;

Communications, IEEE Transactions on [legacy, pre - 1988] , Volume: 9 , Iss 3 , Sep 1961

Pages:215 - 222

[\[Abstract\]](#) [\[PDF Full-Text \(1040 KB\)\]](#) [IEEE JNL](#)

8 The potential of combining SSM/I and SSM/T2 measurements to improve the identification of snowcover and precipitation

Bauer, P.; Grody, N.C.;

Geoscience and Remote Sensing, IEEE Transactions on , Volume: 33 , Issue: 2 , March 1995

Pages:252 - 261

[\[Abstract\]](#) [\[PDF Full-Text \(1140 KB\)\]](#) [IEEE JNL](#)

9 Satellite X-band real aperture radar signatures of nonprecipitating clouds, rain cells and rain bands

Mitnik, L.; Mitnik, M.; Ming-Kuang Hsu;

Geoscience and Remote Sensing Symposium Proceedings, 1998. IGARSS '98. IEEE International , Volume: 2 , 6-10 July 1998

Pages:742 - 744 vol.2

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